

FIG. 2

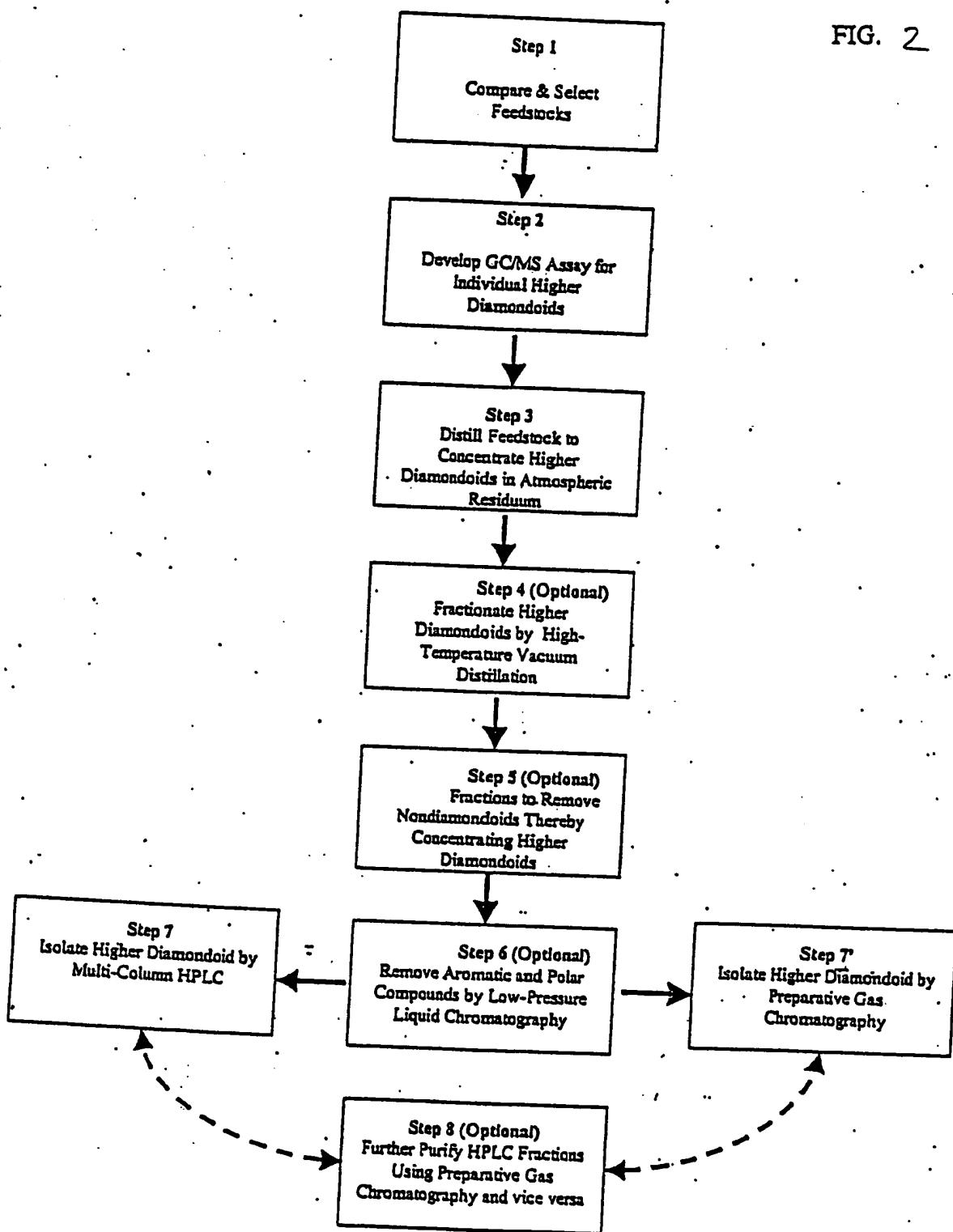


FIG. 3

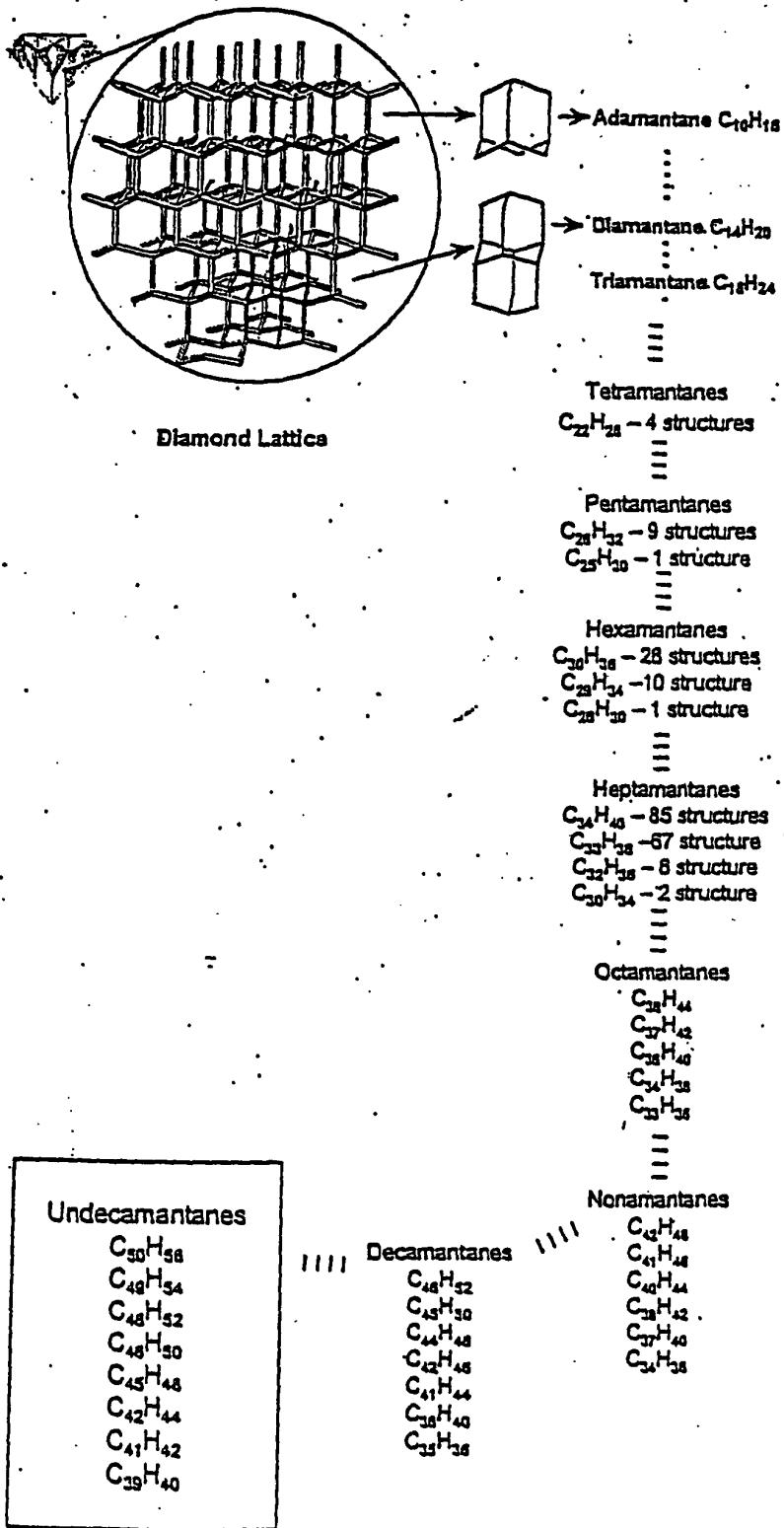


FIG. 4

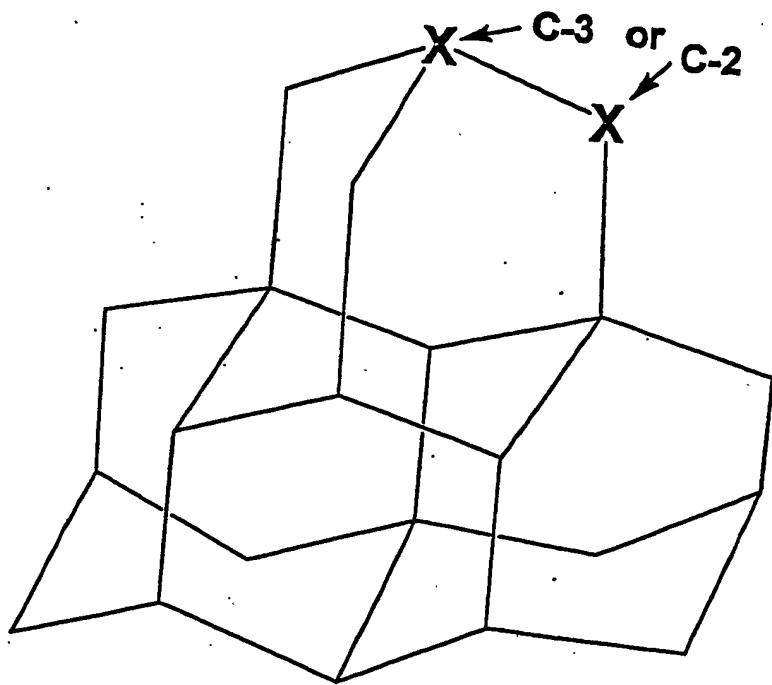


FIG. 5A

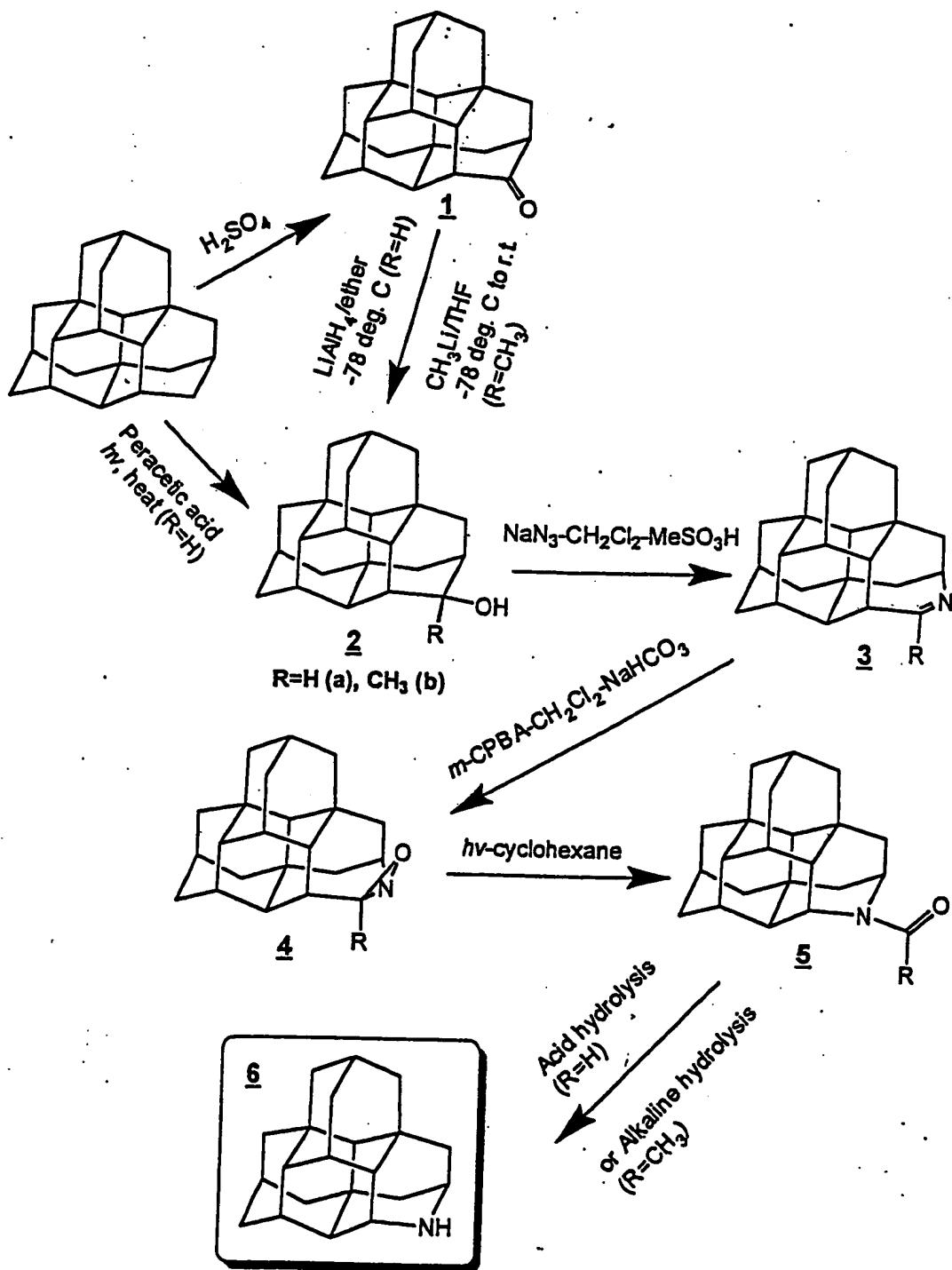


FIG. 5B

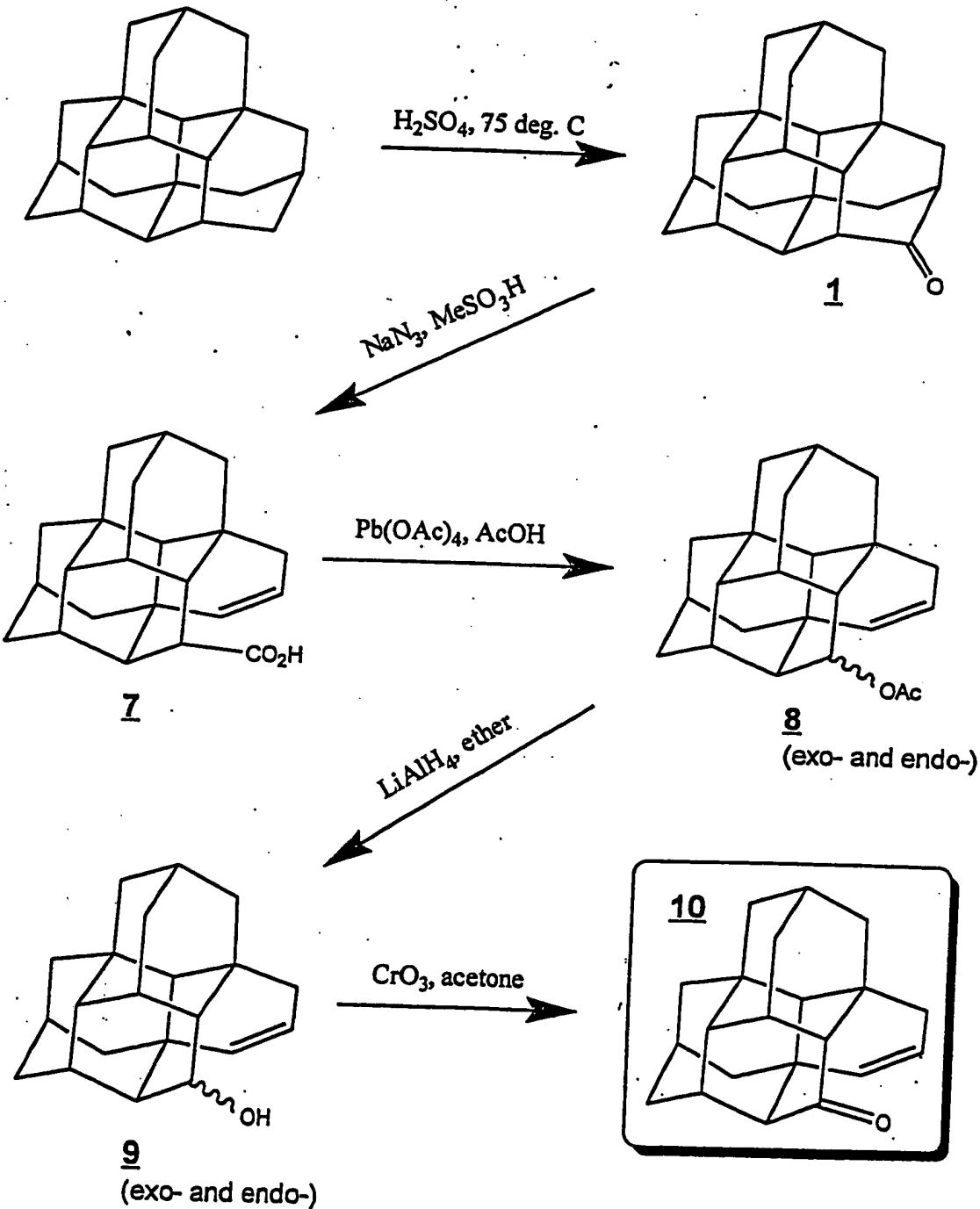
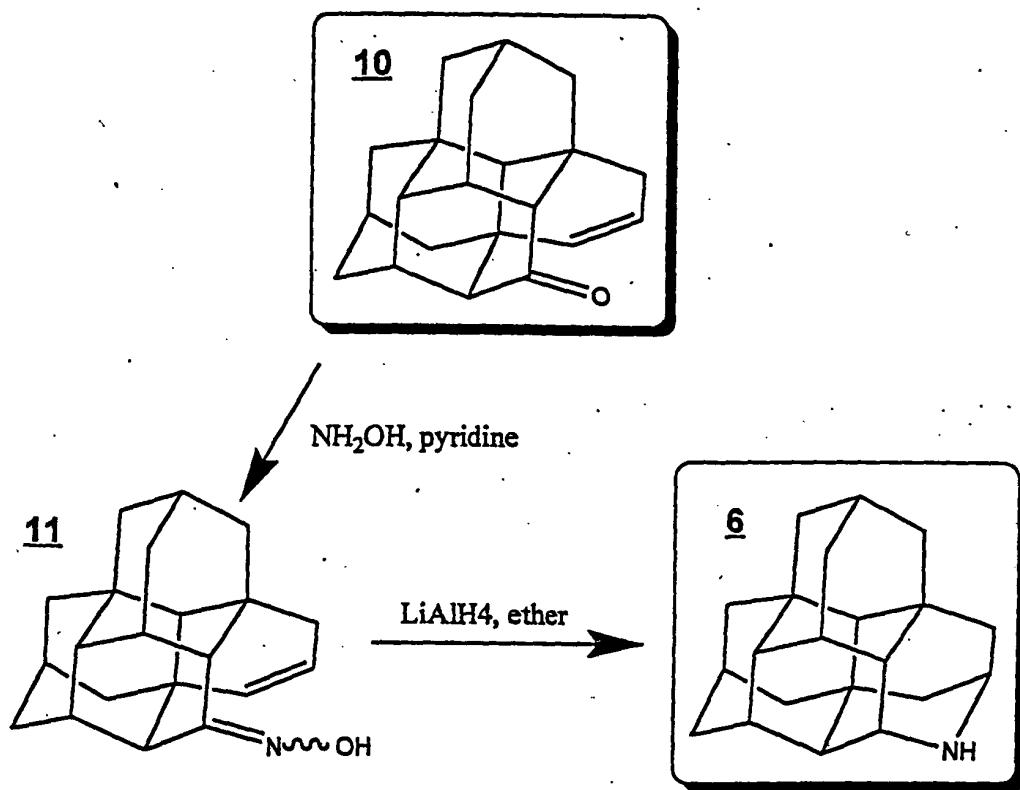


FIG. 5B (Cont.)



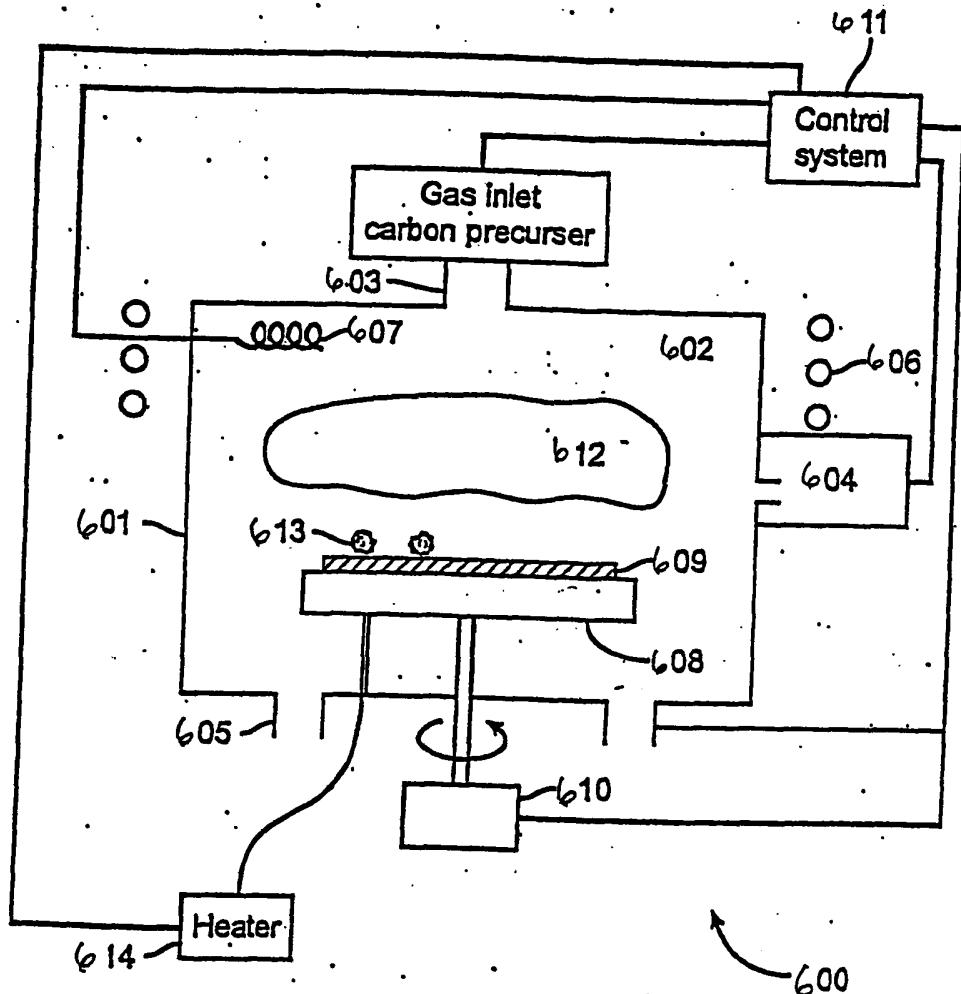


FIG. 6

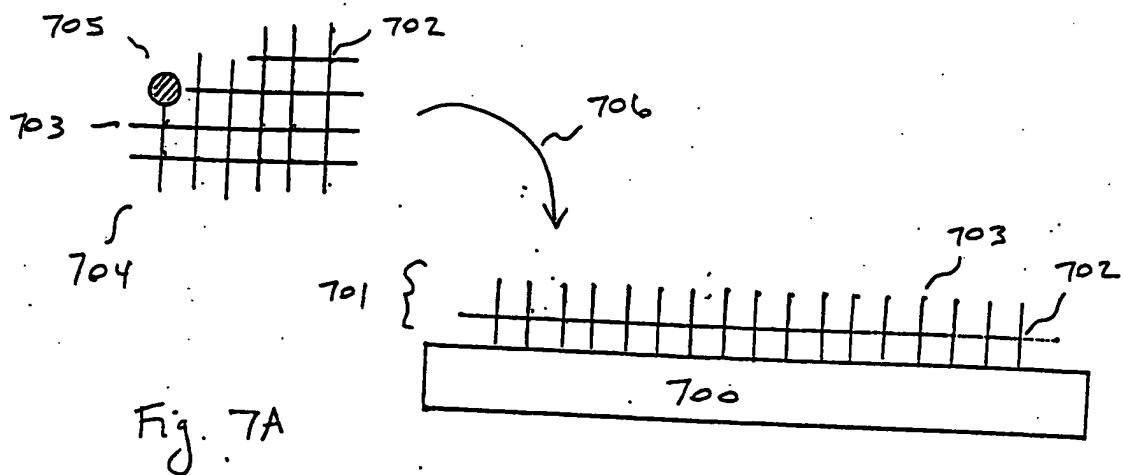


Fig. 7A

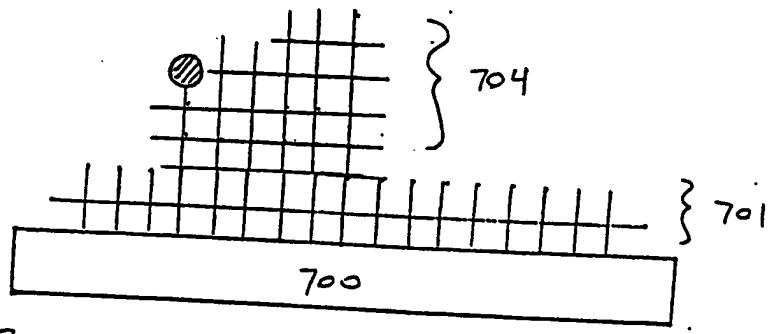


Fig. 7B

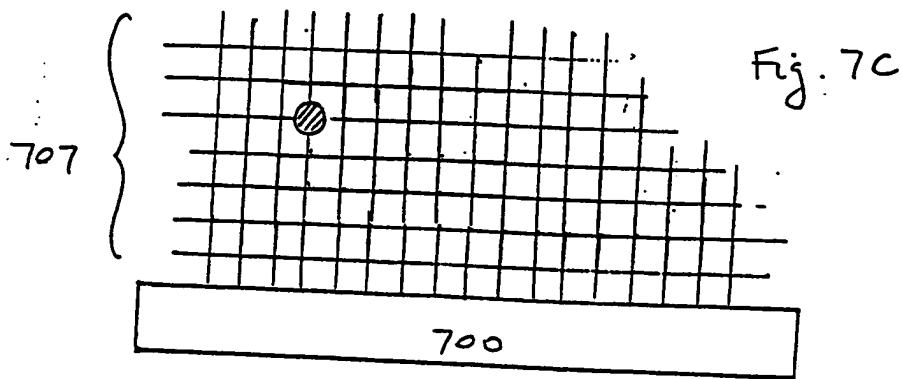


Fig. 7C

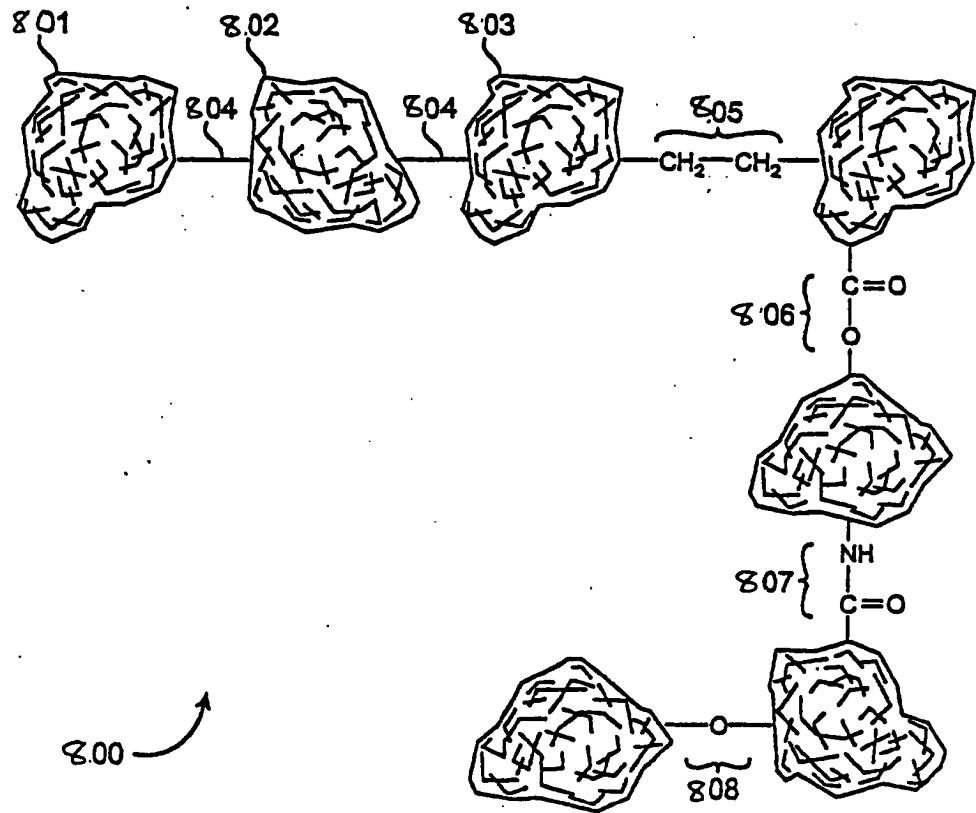


FIG. 8A

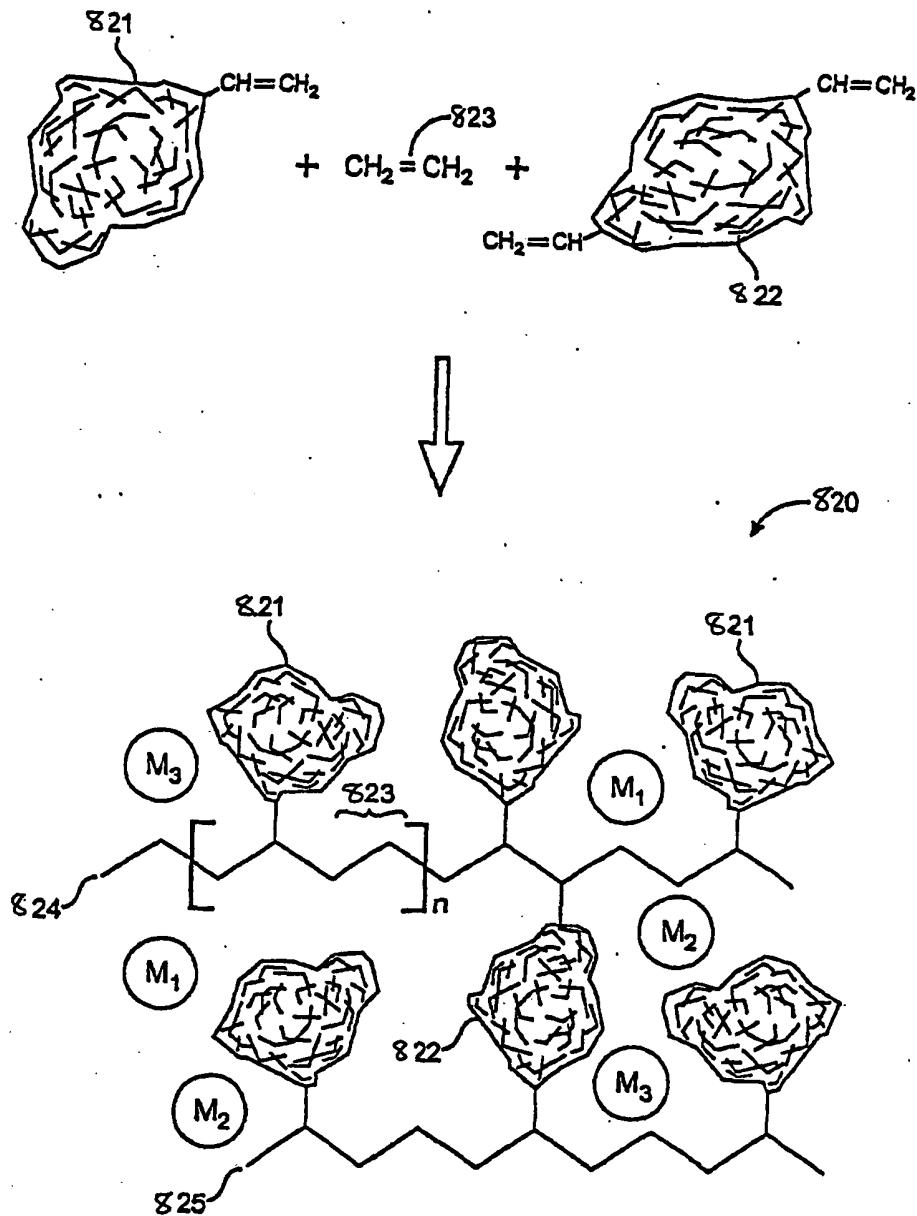


FIG. 8B

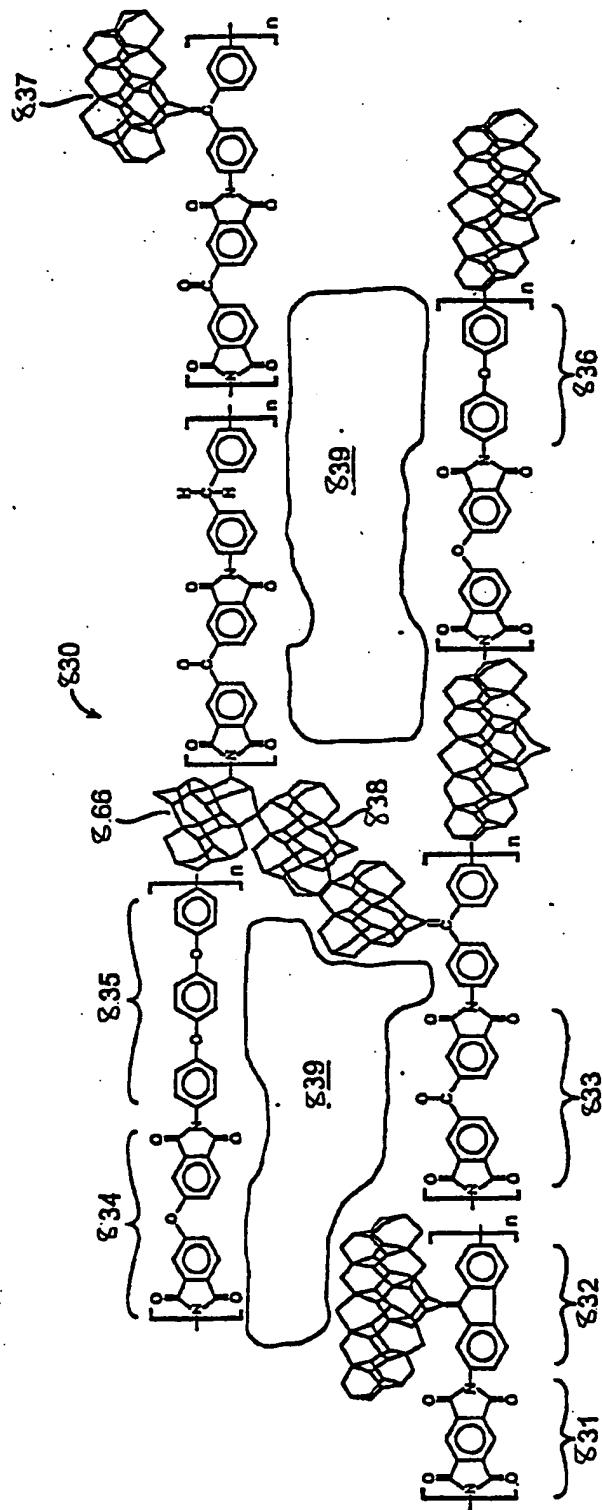
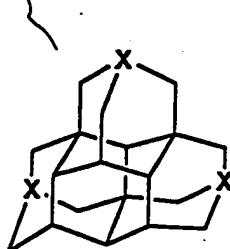


FIG. 8C

FIG. 8D

870

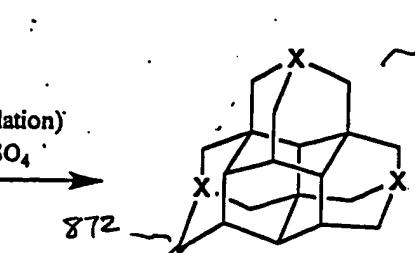


X=B, N, ...

(Oxidation)

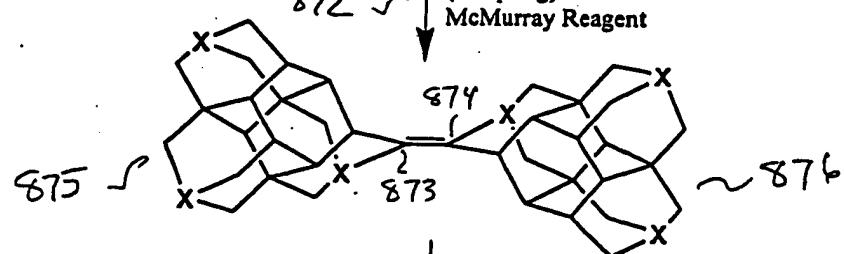
$H_2SO_4$

872



871

877

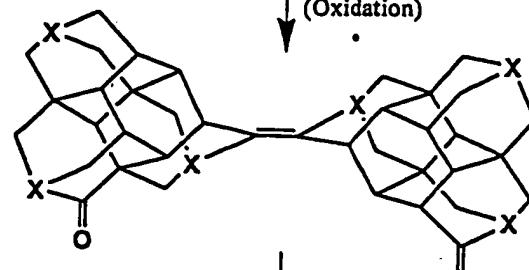


872

(Coupling)  
McMurray Reagent

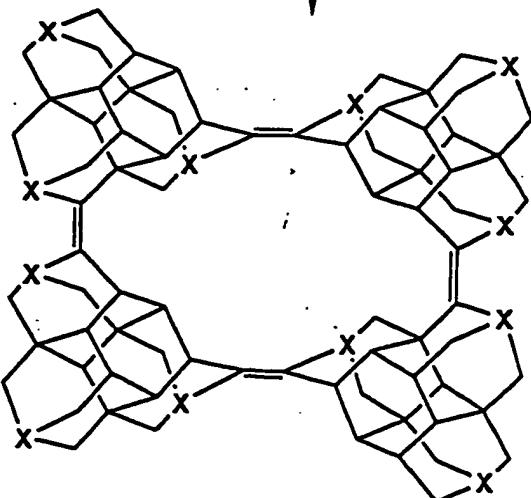
876

878



(Oxidation)

879



(Coupling)



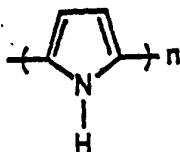
POLYACETYLENE



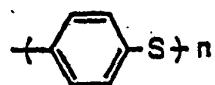
POLYPARAPHHENYLENE

FIG. 9 A

FIG. 9 B



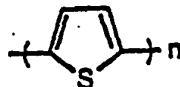
POLYPYRROLE



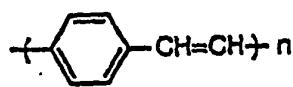
POLYPARAPHHENYLENE  
SULPHIDE

FIG. 9 C

FIG. 9 D



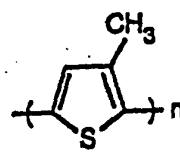
POLYTHIOPHENE



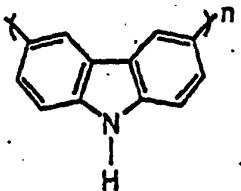
POLYPARAPHHENYLENE  
VINYLENE

FIG. 9 E

FIG. 9 F



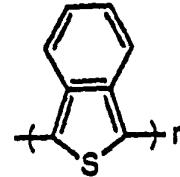
POLY-3-METHYL  
THIOPHENE



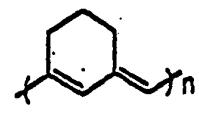
POLYCARBAZOLE

FIG. 9 G

FIG. 9 H



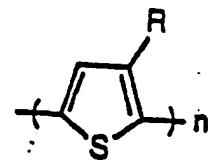
POLYISOTHIANAPHENE



POLY(1,6-HEPTADIYNE)

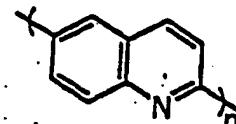
FIG. 9 I

FIG. 9 J



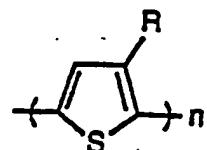
POLY-3-ALKYLTHIOPHENE

**FIG. 9 K**

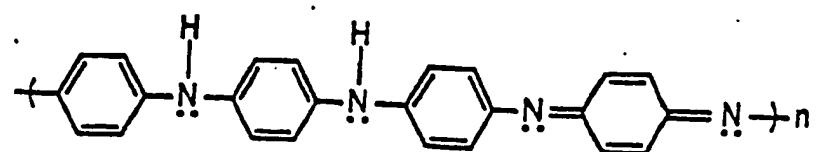


**FIG. 9 L** POLYQUINOLINE

POLY-3-ALKYLSULFONATE



**FIG. 9 M**



POLYANILINE

**FIG. 9 N**

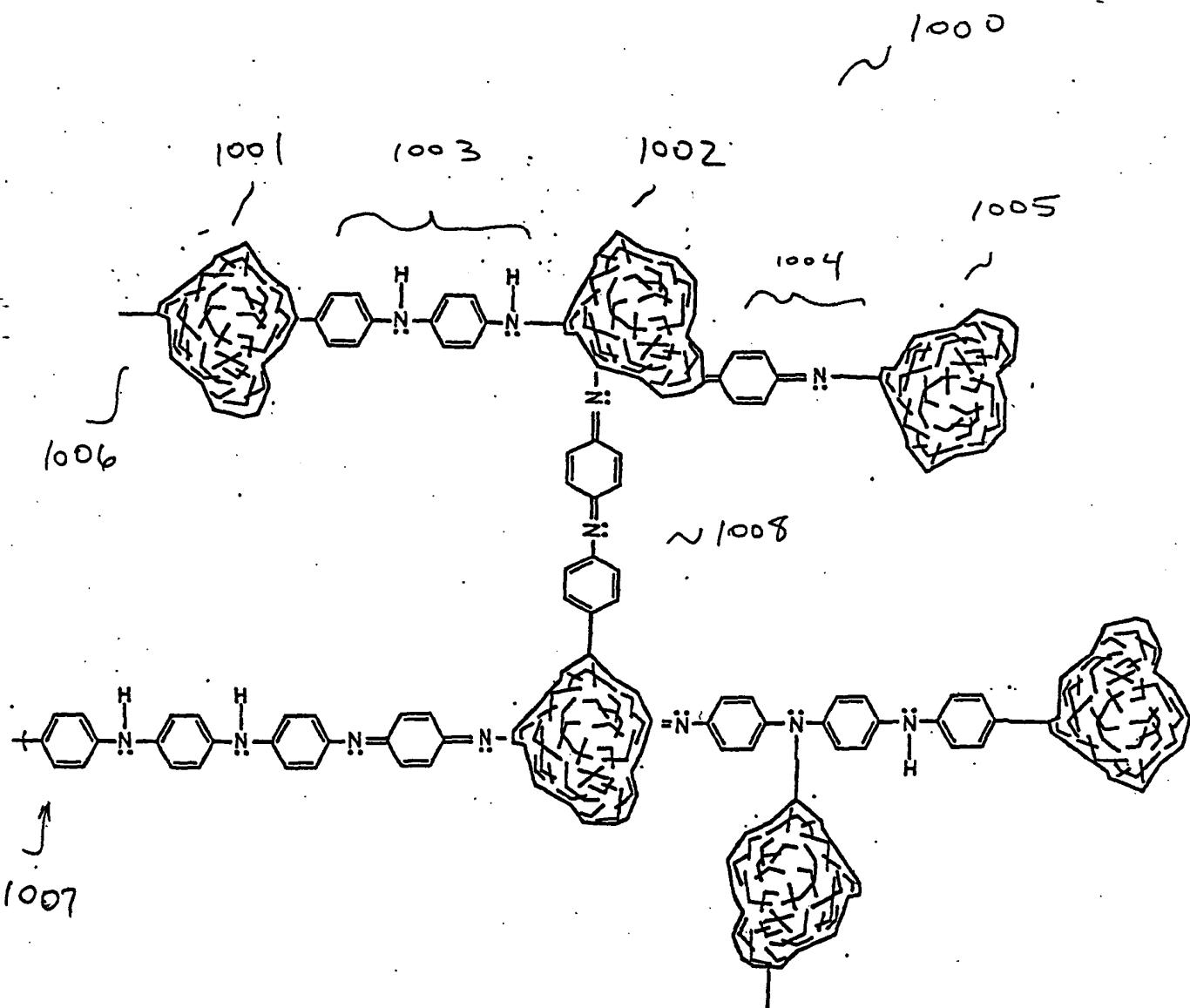


Fig. 10

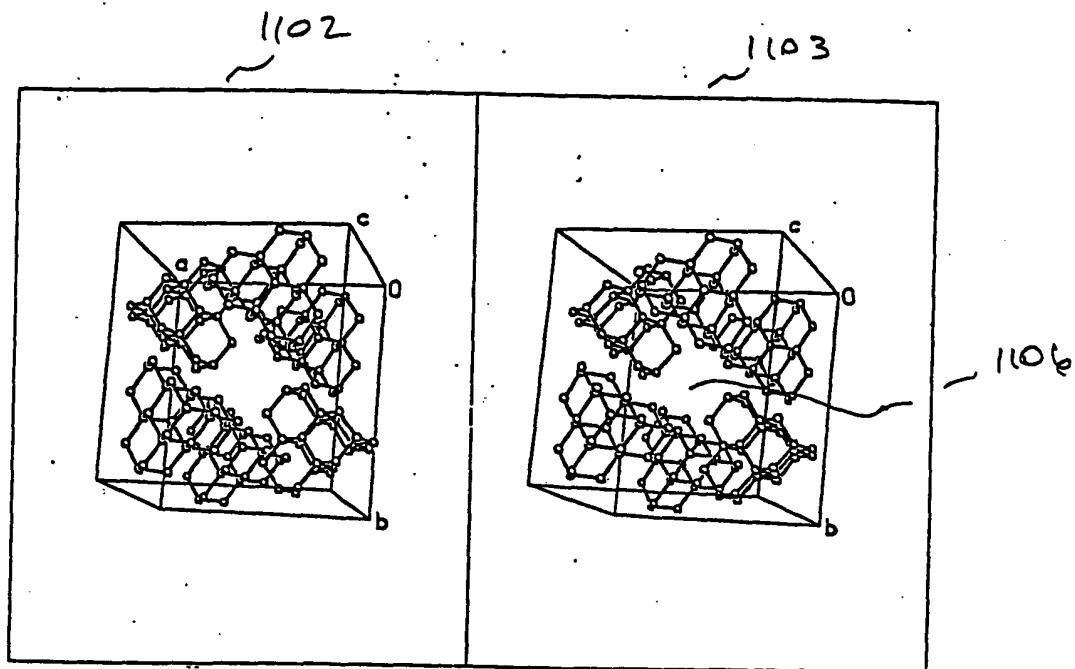
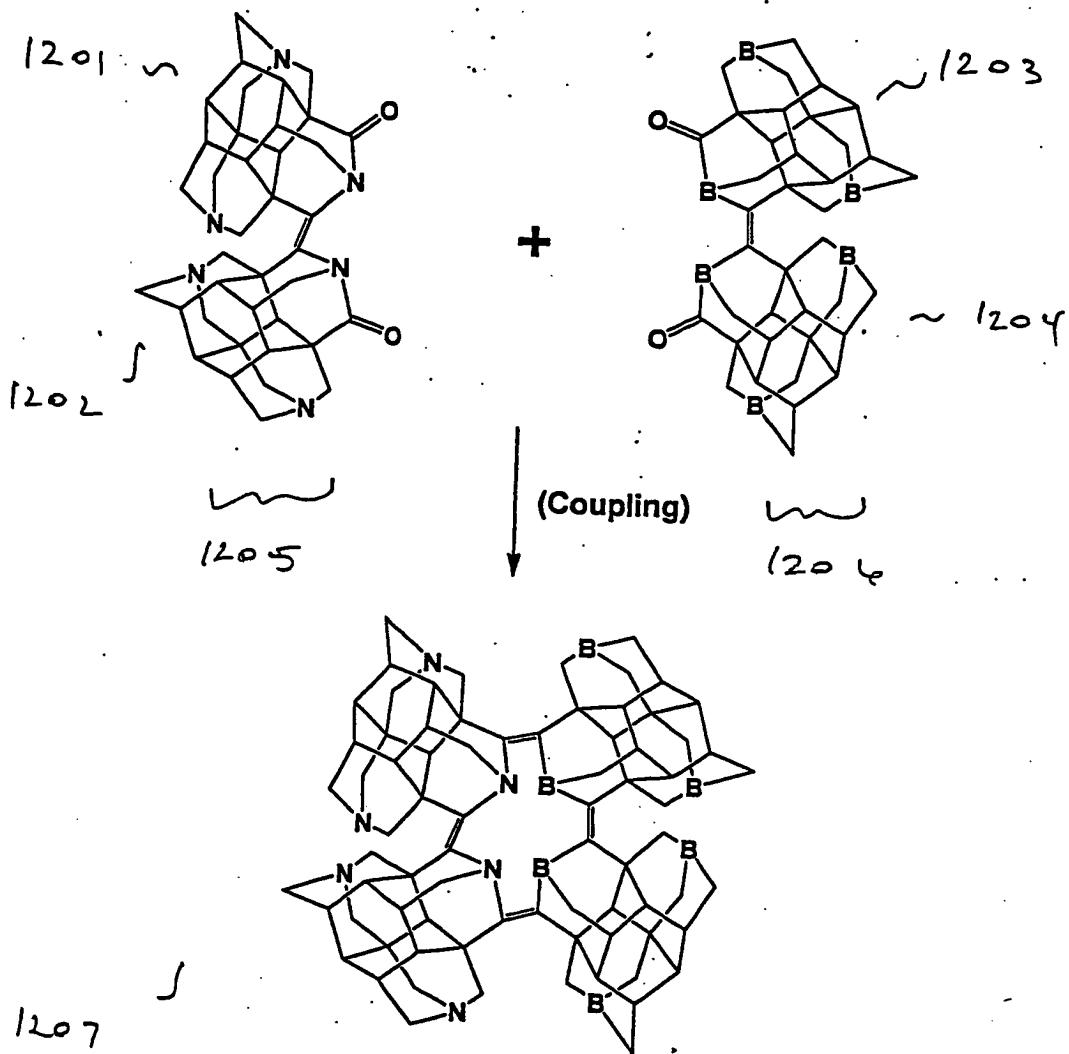


Fig. 11

**FIG. 12**



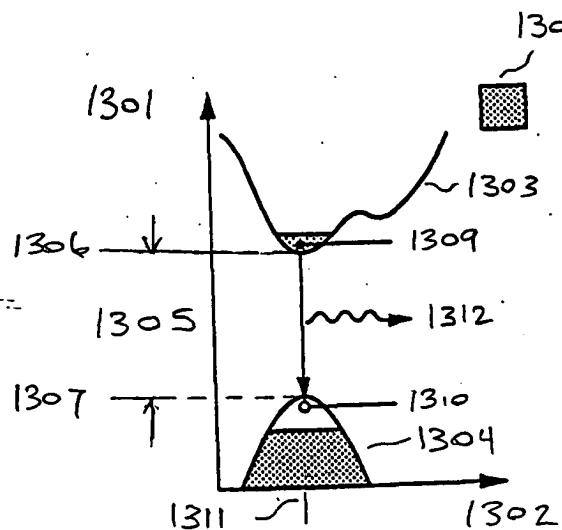


FIG. 13 A

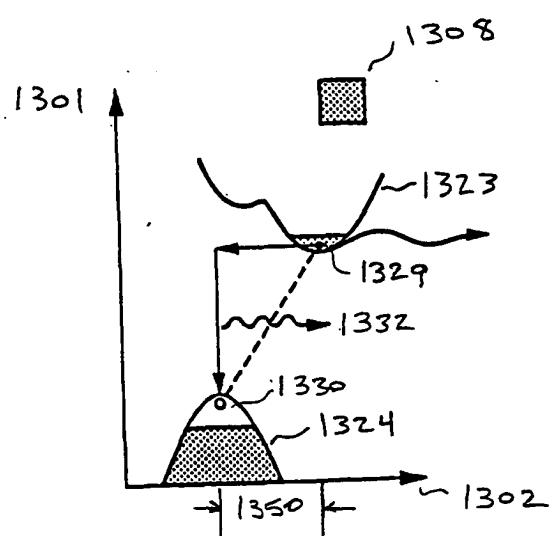


FIG. 13 B

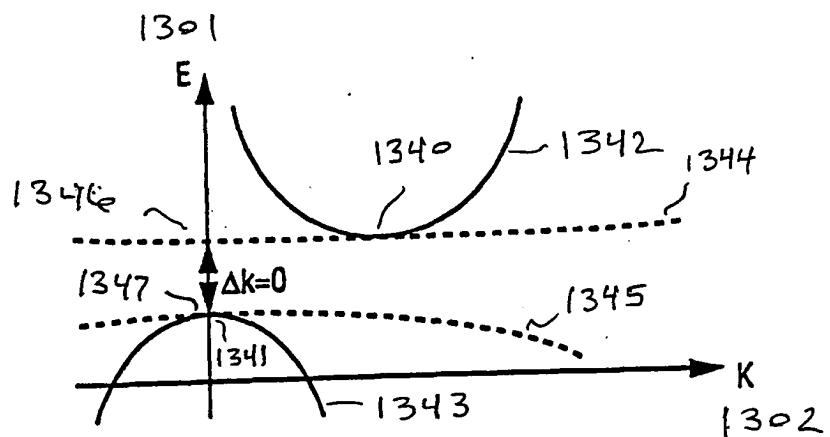


FIG. 13 C

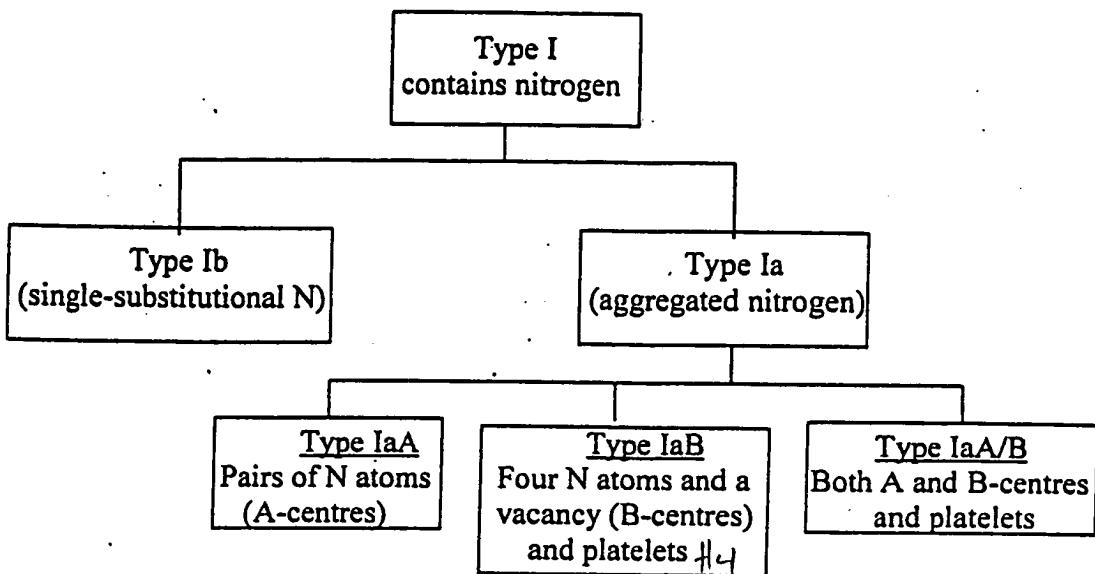
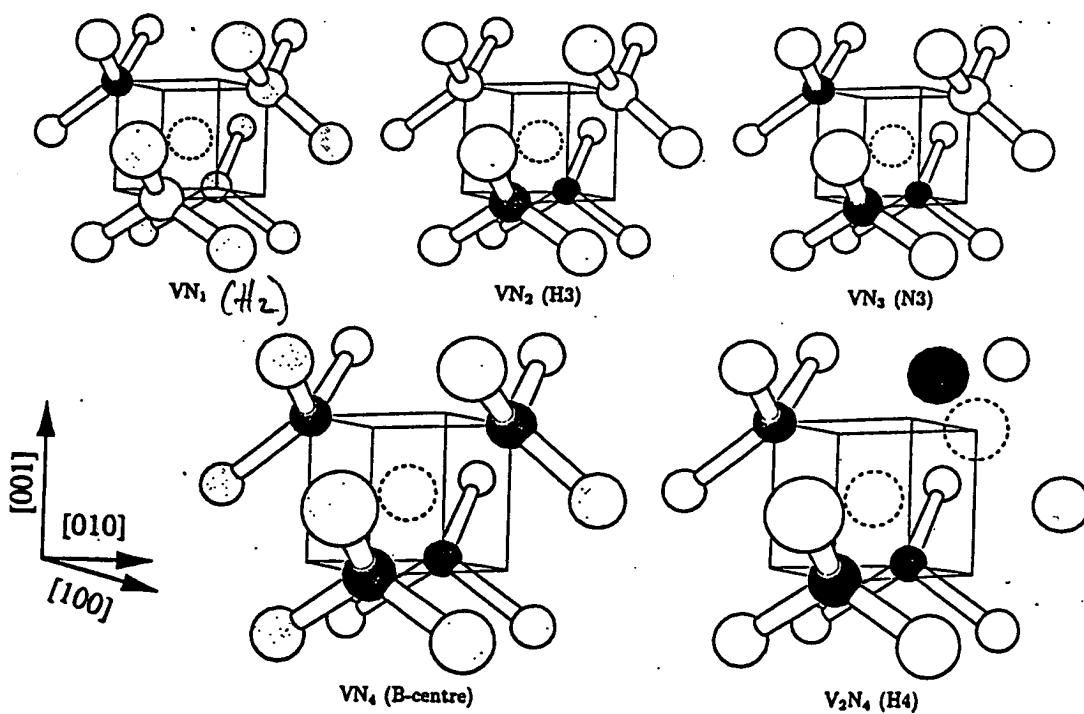
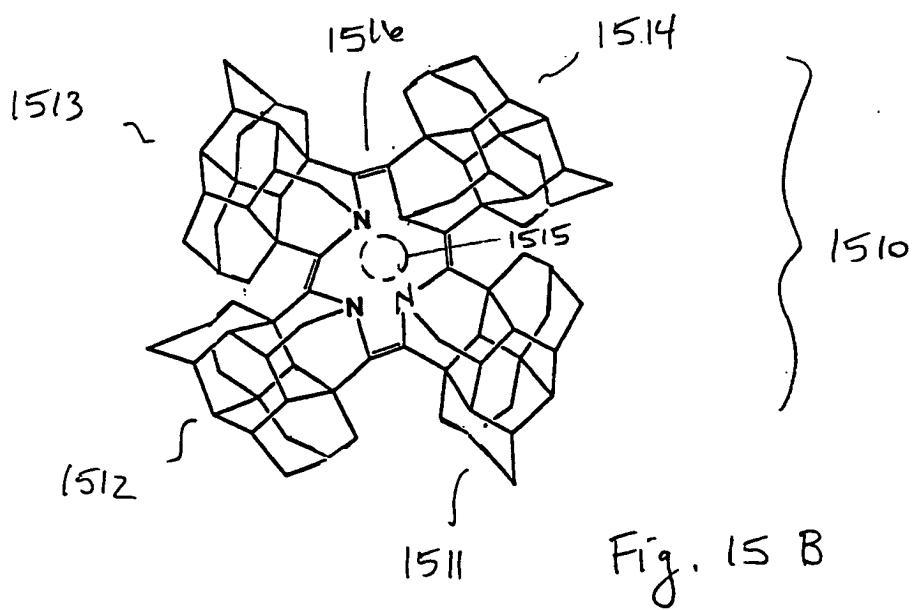
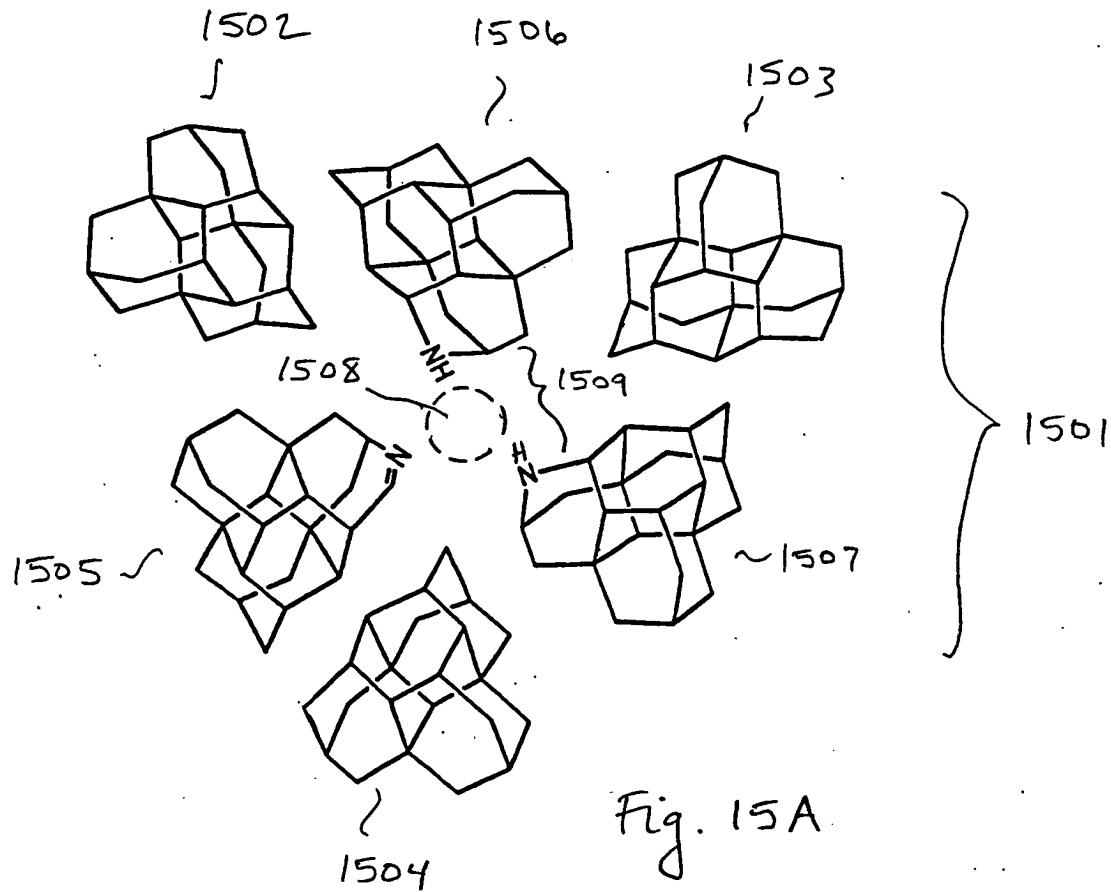
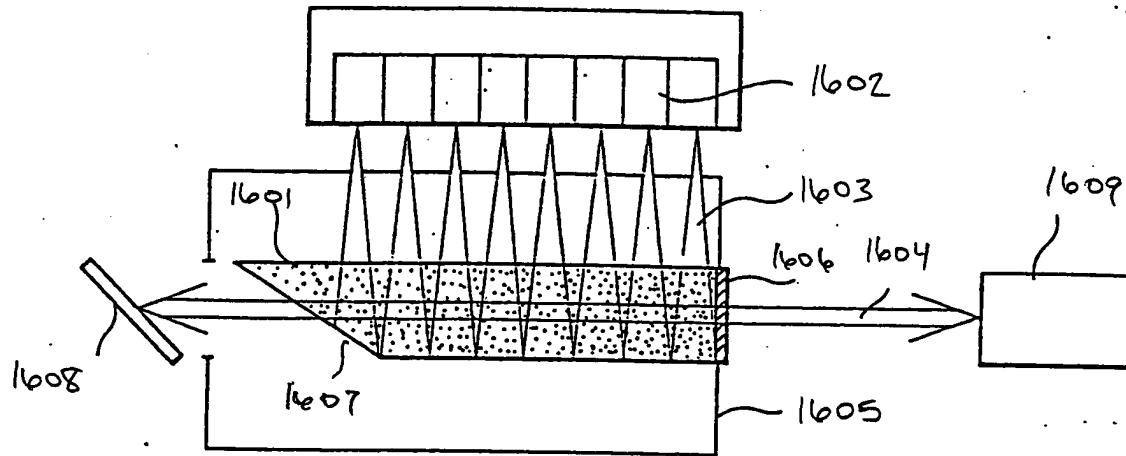


Fig. 14 A





**FIG. 16**



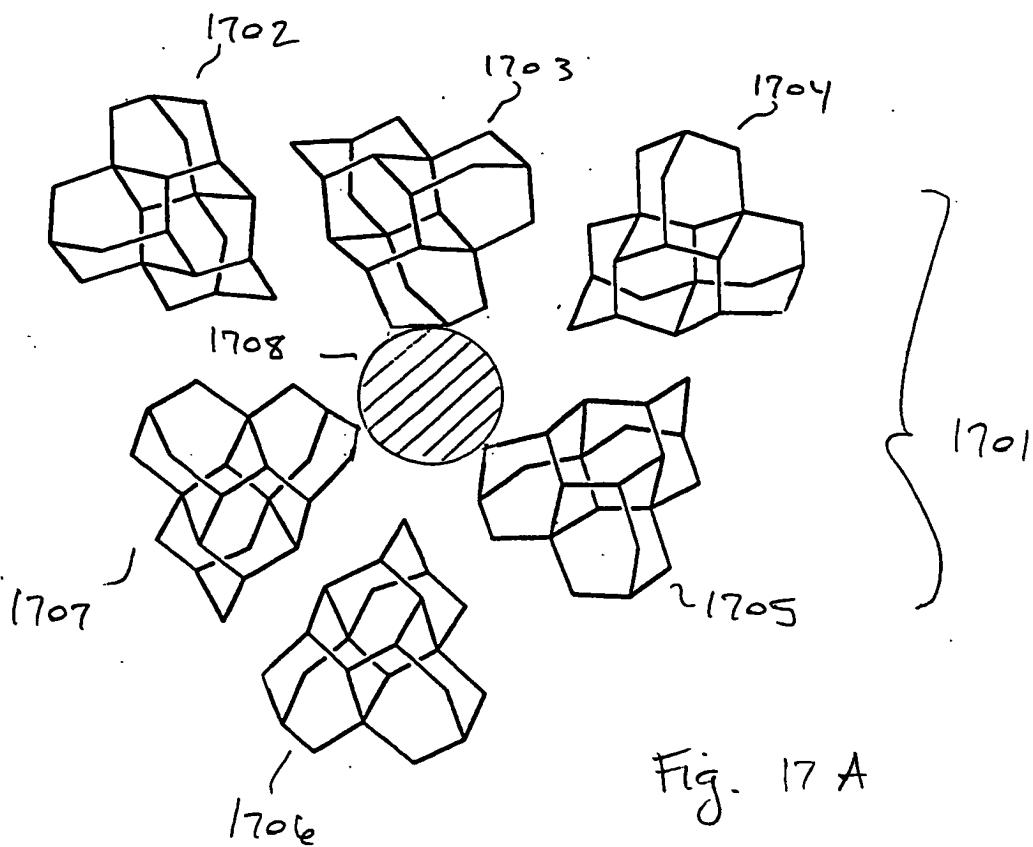


Fig. 17 A

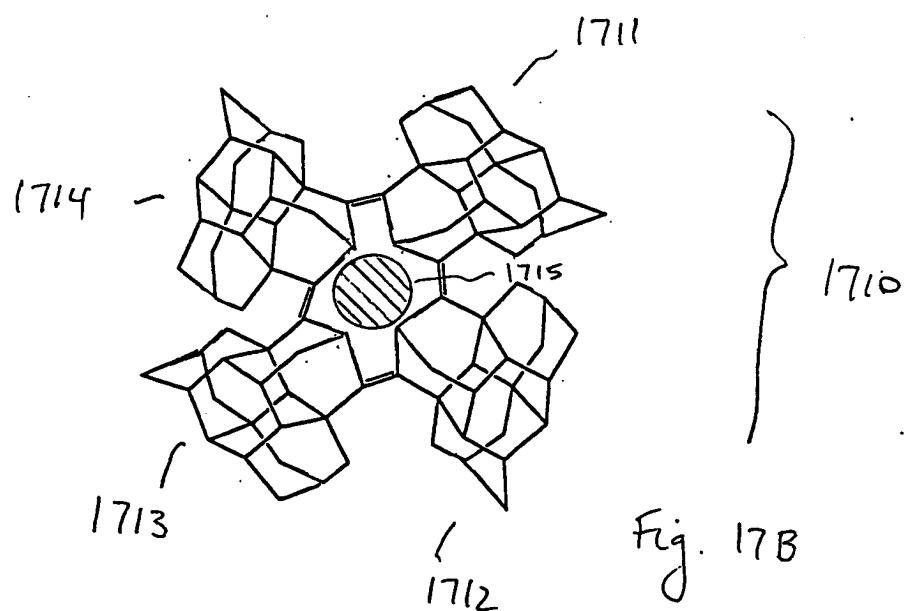


Fig. 17 B

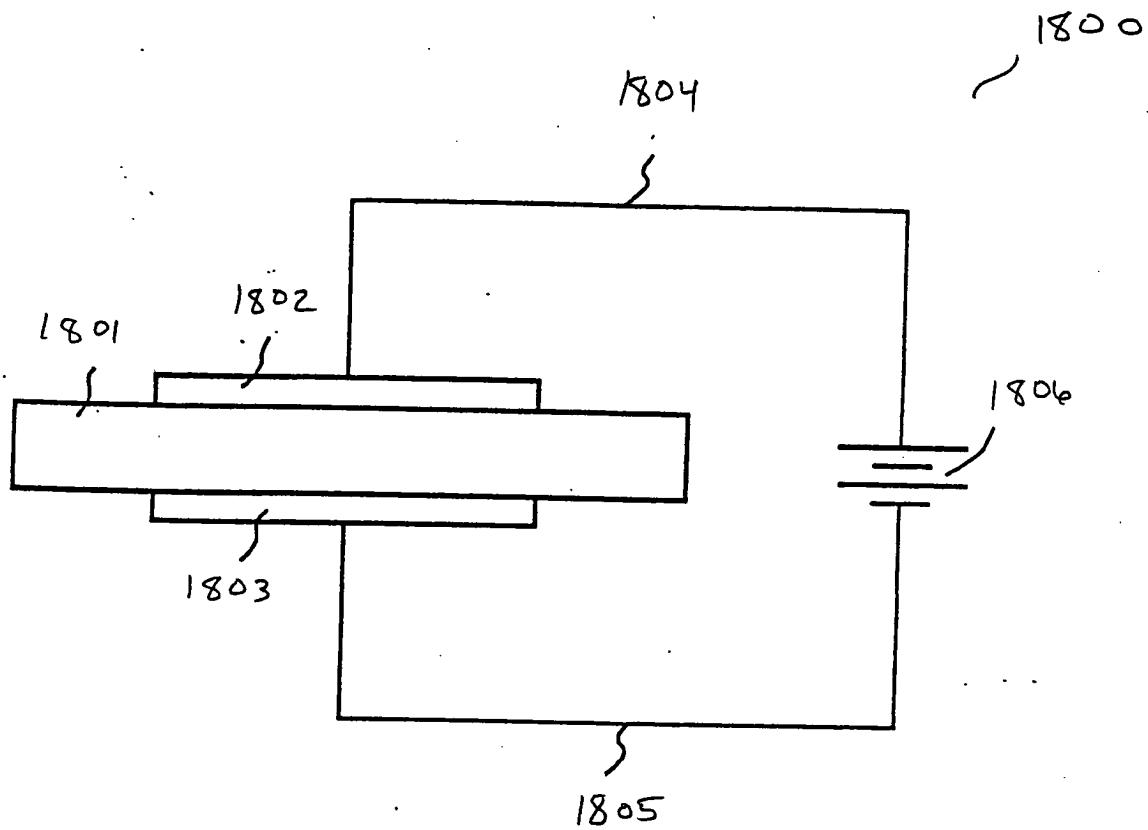


Fig. 18

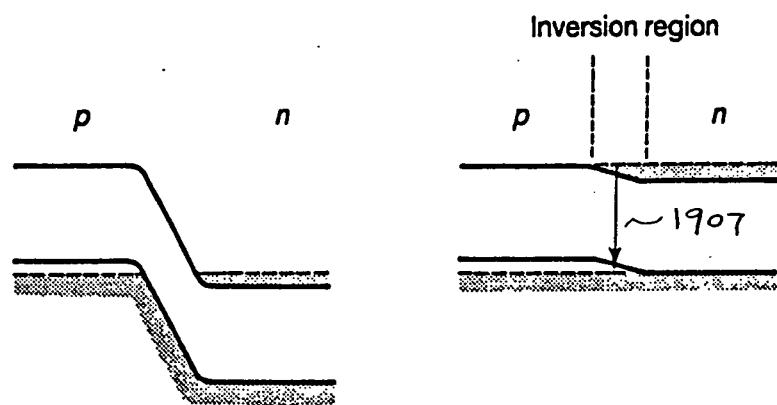
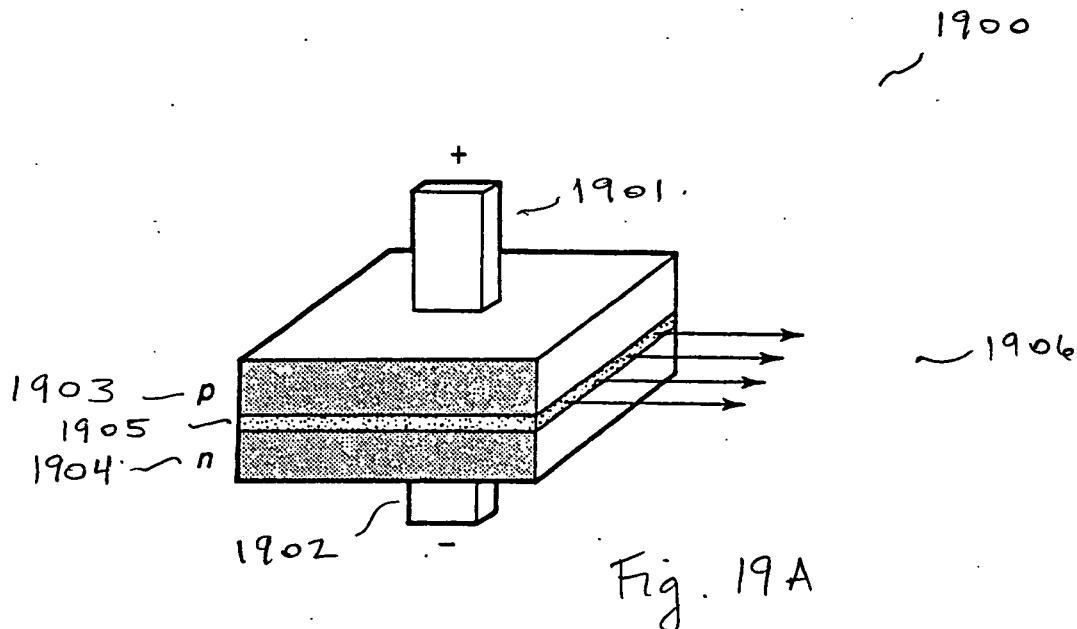


Fig. 19B

Fig. 19C

TITLE: OPTICAL USES OF DIAMONDOID-CONTAINING MATERIALS  
INVENTORS: JEREMY E. DAHL, ET AL.  
APPLICATION SERIAL NO: UNASSIGNED  
ATTORNEY DOCKET NO: 005950-834

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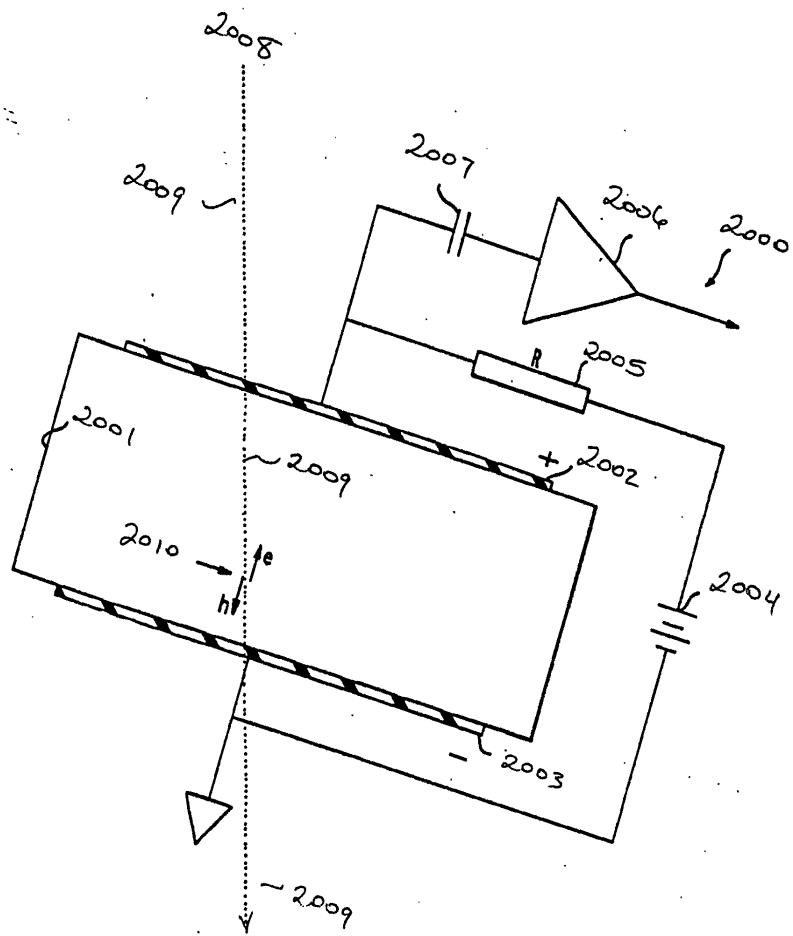


Fig. 20A

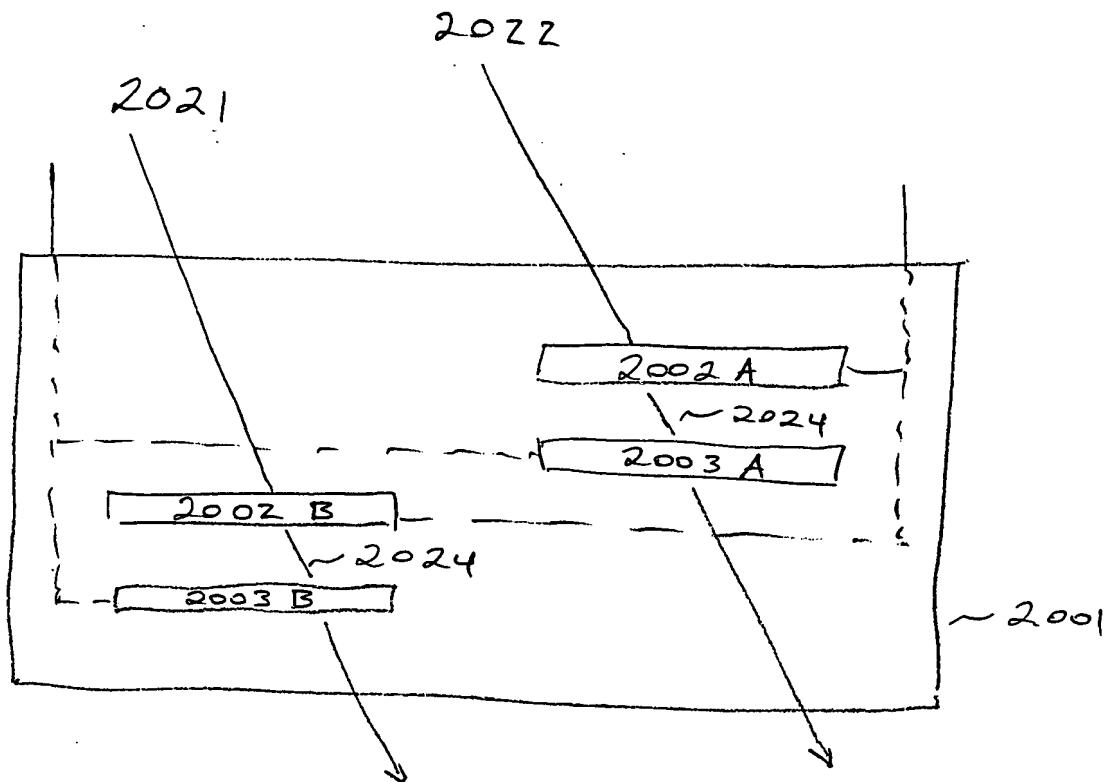


Fig. 20B

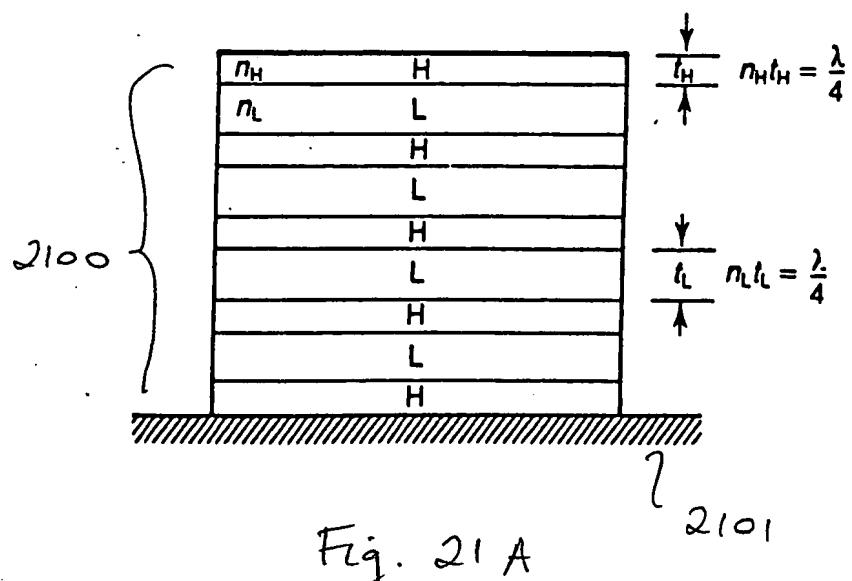


Fig. 21 A

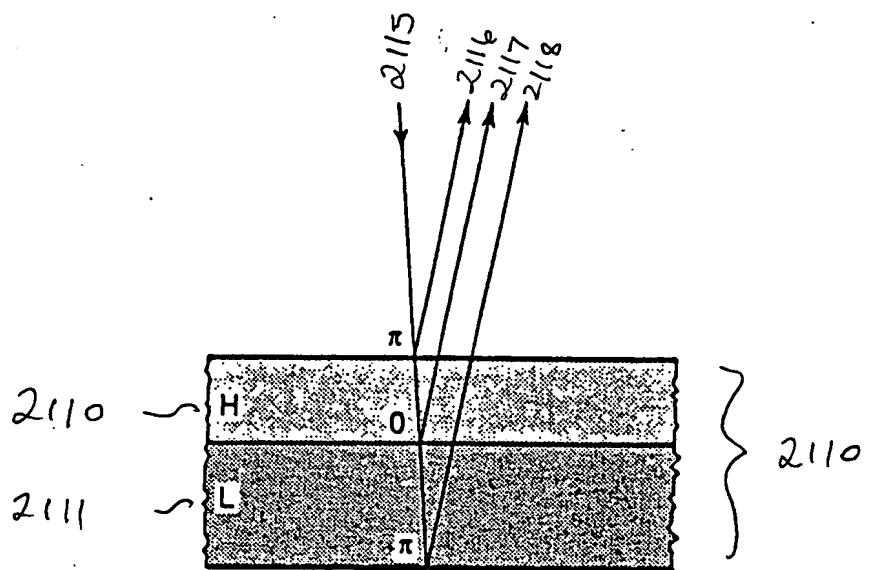


Fig. 21 B